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AUG 2 2 2005

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Mandy V. Wilson

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Application No. 09/820,531 Reply to Office Action of June 20, 2005

AUG 2 2 2005

### IN THE U.S. PATENT AND TRADEMARK OFFICE

U.S. Patent Application S.N. 09/820,531

MICROARRAYS TO SCREEN REGULATORY GENES

inventor(s):

March 29, 2001

Group Art Unit: 1634

B. Sisson

#### CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being transmitted via facsimile to Examiner Bradley L. Sisson, Group Art Unit 1634 of the United States Patent and Trademark Office, Alexandria, VA 22313 to centralized facsimile number (571)-273-8300, on Monday, August 22, 2005.

Name Many Wilson
Signature Many Wilson

#### REPLY PURSUANT TO 37 CFR 6 1.111

Commissioner of Patents Alexandria, VA 22313-1450

This Reply is being filed in response to the Office Action dated June 20, 2005. It is believed that no fee is due with this Amendment; however, if a fee is required, the Commissioner is hereby authorized to charge or credit Deposit Account No. 502752.

### · Issues under 35 U.S.C. 88 101 and 112

In the Office Action dated June 20, 2005, the Examiner rejected the pending claims under 25 U.S.C. §§ 101 and 112 using largely the same arguments supplied in the Office Action dated November 24, 2004. In making these rejections, the Examiner construed the claims "as encompassing one suspending time ...air, light, any temperature, pressure, gravity, etc." and then argued that the claims-so-construed were not adequately described in the specification, were not enabled, and lacked utility.

In the response to the Office Action dated November 24, 2004, Applicant did not argue "that the interpretation of "exogenous agent" was overly broad," as suggested in the Office Action dated June 20, 2005. Indeed, Applicant agrees with the Examiner in that "the art recognizes a tremendously broad array of exogenous agents as having, or potentially having an effect on genes of interest." In the response to the Office Action dated November 24, 2004, the Applicant submitted an argument that a reading of the language of the claims, given their ordinary meaning, would not involve the suspension of time or the blocking of any and all exogenous agents.

The meaning of the following claim language is at issue: "screening a sample microarray comprising genes ... exposed to the disease, age or exogenous agent ...; and comparing the

extrel genes ... not exposed to the disease, and or exogerious agent." The Examiner argues that this lenguage encompasses suspe

onstrued, there would be no basis for any rejection contained in the Office Action. Applicant submits that the alaum language does not encompass impossible oots quak as suspending time or

Contemporaneously filed with this Ar nondment is a Declaration under 37 CFR 1.132 by contention that one of ordinary skill in the art would not understand the claims to encompass

It is respectfully submitted that one of ordinary skill in the art would understand that a is never expected to be removed from the basic effects of the environment when submitted which the test surryle is subjected. The eleim lenguage reasonably convoys to one of ordinary to which the genes of the sample microarray are exp

Because the claim attended end out evidorestand the ability to appeared three par the ability to a sliminate exposure to any and all exogenous agents, the rejections pursuant to 35 U.S.C. 99101 and 112 are bulleved to be improper. It is the beautied that the method of the present invention is useful because it identifies characteristics in samples-of-interest by immpuring pusitionally defined information for multiple samples to one another. For example, the characteristics identified through the method of the present invention for samples of interest may include a historialization territor of gains and/or forest of a personiar game or a genup of games,

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relative to the other samples. Changes in gene expression have been found to correlate with diseases or disorders and identification of such changes allow for diagnosis and assessment of potential treatments. See e.g., US Application Publication 2002/0009736, Paragraphs [0061] [0073].

In light of the foregoing remarks and the Declaration submitted herewith, Applicant respectfully requests allowance of all claims now pending in this Application.

Respectfully submitted,

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